

(f) *Nickel. (1) Stainless Steel.* The following effluent limitations apply to discharges in the stainless steels segment for each operation as applicable. Increased mass discharges may be provided by the permit authority on a site-specific basis to account for unregulated process wastewaters and

non-process wastewaters (*e.g.*, oily wastewater from hot forming mill basements and roll shops, tramp oils from mill oil collection systems, utility wastewaters, groundwater remediation wastewaters), but only to the extent such flows are co-treated with process wastewaters regulated by this subpart

and generate an increased effluent volume. Such increased mass discharges shall be calculated as a percentage increase of the mass discharge otherwise applicable on the basis of the increased effluent volume.

#### EFFLUENT LIMITATIONS (BAT)

	Maximum daily <sup>1</sup>	Maximum monthly avg. <sup>1</sup>
(i) Acid pickling and other descaling:		
(A) bar, billet .....	0.000147	0.000104
(B) pipe, tube .....	0.000494	0.000347
(C) plate .....	0.000224	0.000158
(D) strip, sheet .....	0.000449	0.000315
(ii) Acid regeneration:		
(A) fume scrubbers .....	<sup>2</sup> 0.0923	<sup>2</sup> 0.0649
(iii) Alkaline cleaning:		
(A) pipe, tube .....	0.0000128	0.00000901
(B) strip, sheet .....	<sup>2</sup> 0.00160	<sup>2</sup> 0.00113
(iv) Cold forming:		
(A) direct application-single stand .....	0.0000224	0.0000158
(B) direct application-multiple stands .....	0.000176	0.000124
(C) recirculation-single stand .....	0.00000192	0.00000135
(D) recirculation-multiple stands .....	0.0000103	0.00000721
(E) combination-multiple stand .....	0.0000917	0.0000644
(v) Continuous annealing	0.0000128	0.00000901
(vi) Wet air pollution control devices:		
(A) fume scrubbers .....	<sup>2</sup> 0.0138	<sup>2</sup> 0.00973

<sup>1</sup> Pounds per ton of product for all operations except fume scrubbers.

<sup>2</sup> The values are expressed in pounds per day for this operation.

(g) *Zinc. (1) Carbon and Alloy Steel.* The following effluent limitations apply to discharges in the carbon and alloy steels segment for each operation as applicable. Increased mass discharges may be provided by the permit authority on a site-specific basis to account for unregulated process wastewaters and

non-process wastewaters (*e.g.*, oily wastewater from hot forming mill basements and roll shops, tramp oils from mill oil collection systems, utility wastewaters, groundwater remediation wastewaters), but only to the extent such flows are co-treated with process wastewaters regulated by this subpart

and generate an increased effluent volume. Such increased mass discharges shall be calculated as a percentage increase of the mass discharge otherwise applicable on the basis of the increased effluent volume.

#### EFFLUENT LIMITATIONS (BAT)

	Maximum daily <sup>1</sup>	Maximum monthly avg. <sup>1</sup>
(i) Acid pickling—hydrochloric:		
(A) bar, billet, rod, coil .....	0.000637	0.000262
(B) pipe, tube .....	0.00133	0.00546
(C) plate .....	0.0000455	0.0000187
(D) strip, sheet .....	0.0000650	0.0000267
(i) Acid pickling—sulfuric:		
(A) bar, billet, rod, coil .....	0.000364	0.000150
(B) pipe, tube .....	0.000650	0.000267
(C) plate .....	0.0000455	0.0000187
(D) strip, sheet .....	0.000299	0.000123
(ii) Acid regeneration:		
(A) fume scrubbers .....	<sup>2</sup> 0.187	<sup>2</sup> 0.0770
(iii) Alkaline cleaning:		
(A) pipe, tube .....	0.0000260	0.0000107
(B) strip, sheet .....	0.000455	0.000187
(iv) Cold forming:		
(A) direct application-single stand .....	0.00000390	0.00000160
(B) direct application-multiple stands .....	0.000357	0.000147
(C) recirculation-single stand .....	0.00000130	0.00000535
(D) recirculation-multiple stands .....	0.0000325	0.0000134
(E) combination-multiple stand .....	0.000186	0.0000765
(v) Continuous annealing	0.0000260	0.0000107
(vii) Electroplating:		

## EFFLUENT LIMITATIONS (BAT)—Continued

	Maximum daily <sup>1</sup>	Maximum monthly avg. <sup>1</sup>
(A) plate .....	0.0000455	0.0000187
(B) strip, sheet: tin, chromium .....	0.00143	0.000588
(C) strip, sheet: zinc, other metals .....	0.000715	0.000294
(viii) Hot coating:		
(A) galvanizing, terne and other metals .....	0.000715	0.000294
(ix) Wet air pollution control devices:		
(A) fume scrubbers .....	<sup>2</sup> 0.0281	<sup>2</sup> 0.0116

<sup>1</sup> Pounds per ton of product for all operations except fume scrubbers.

<sup>2</sup> The values are expressed in pounds per day for this operation.

#### § 420.65 New Source Performance Standards (NSPS).

New sources subject to this subpart must achieve the following new source performance standards (NSPS), as applicable.

(a) Any new source subject to the provisions of this section that commenced discharging after *[insert date 10 years prior to the date that is 60 days after the publication date of the final rule]* and before *[insert date that is 60 days after the publication date of the final rule]* must continue to achieve the applicable standards specified in the 2000 version of §§ 420.84, 420.94, 420.104, 420.114, and 420.124. toxic and nonconventional pollutants, those

standards shall not apply after the expiration of the applicable time period specified in 40 CFR 122.29(d)(1); thereafter, the source must achieve the applicable standards specified in § 420.64.

(b) The following standards apply with respect to each new source that commences construction after *[insert date that is 60 days after the publication date of the final rule]*.

(1) *Total Suspended Solids.* (i) *Carbon and Alloy Steel.* The following performance standards apply to discharges in the carbon and alloy steels segment for each operation as applicable. Increased mass discharges may be provided by the permit authority

on a site-specific basis to account for unregulated process wastewaters and non-process wastewaters (e.g., oily wastewater from hot forming mill basements and roll shops, tramp oils from mill oil collection systems, utility wastewaters, groundwater remediation wastewaters), but only to the extent such flows are co-treated with process wastewaters regulated by this subpart and generate an increased effluent volume. Such increased mass discharges shall be calculated as a percentage increase of the mass discharge otherwise applicable on the basis of the increased effluent volume.

#### PERFORMANCE STANDARDS (NSPS)

	Maximum daily <sup>1</sup>	Maximum monthly avg. <sup>1</sup>
(i) Acid pickling—hydrochloric:		
(A) bar, billet, rod, coil .....	0.0566	0.0308
(B) pipe, tube .....	0.118	0.0641
(C) plate .....	0.00405	0.00220
(D) strip, sheet .....	0.00578	0.00314
(ii) Acid pickling—sulfuric:		
(A) bar, billet, rod, coil .....	0.0324	0.0176
(B) pipe, tube .....	0.0578	0.0314
(C) plate .....	0.00405	0.00220
(D) strip, sheet .....	0.0266	0.0145
(iii) Acid regeneration:		
(A) fume scrubbers .....	<sup>2</sup> 16.6	<sup>2</sup> 9.05
(iv) Alkaline cleaning:		
(A) pipe, tube .....	0.00231	0.00126
(B ) strip, sheet .....	0.0405	0.0220
(v) Cold forming:		
(A) direct application-single stand .....	0.000347	0.000189
(B) direct application-multiple stands .....	0.0318	0.0173
(C) recirculation-single stand .....	0.000116	0.0000628
(D) recirculation-multiple stands .....	0.00289	0.00157
(E) combination-multiple stand .....	0.0165	0.00899
(vi) Continuous annealing lines	0.00231	0.00126
(vii) Electroplating:		
(A) plate .....	0.00405	0.00220
(B) strip, sheet: tin, chromium .....	0.127	0.0691
(C) strip, sheet: zinc, other metals .....	0.0636	0.0346
(viii) Hot coating:		
(A) galvanizing, terne and other metals .....	0.0636	0.0346
(ix) Wet air pollution control devices:		
(A) fume scrubbers .....	<sup>2</sup> 2.50	<sup>2</sup> 1.36

<sup>1</sup> Pounds per ton of product for all operations except fume scrubbers.

<sup>2</sup> The values are expressed in pounds per day for this operation.

(ii) *Stainless Steel*. The following performance standards apply to discharges in the stainless steels segment for each operation as applicable. Increased mass discharges may be provided by the permit authority on a site-specific basis to account for unregulated process wastewaters and

non-process wastewaters (e.g., oily wastewater from hot forming mill basements and roll shops, tramp oils from mill oil collection systems, utility wastewaters, groundwater remediation wastewaters), but only to the extent such flows are co-treated with process wastewaters regulated by this subpart

and generate an increased effluent volume. Such increased mass discharges shall be calculated as a percentage increase of the mass discharge otherwise applicable on the basis of the increased effluent volume.

#### PERFORMANCE STANDARDS (NSPS)

	Maximum daily <sup>1</sup>	Maximum monthly avg. <sup>1</sup>
(A) Acid pickling and other descaling:		
(1) bar, billet .....	0.0242	0.0121
(2) pipe, tube .....	0.0809	0.0406
(3) plate .....	0.00368	0.00184
(4) strip, sheet .....	0.0735	0.0369
(B) Acid regeneration:		
(1) fume scrubbers .....	<sup>2</sup> 15.1	<sup>2</sup> 7.59
(C) Alkaline cleaning:		
(1) pipe, tube .....	0.00210	0.00105
(2) strip, sheet .....	0.263	0.132
(D) Cold forming:		
(1) direct application-single stand .....	0.00368	0.00184
(2) direct application-multiple stands .....	0.0289	0.0145
(3) recirculation-single stand .....	0.000315	0.000158
(4) recirculation-multiple stands .....	0.00168	0.000843
(5) combination-multiple stand .....	0.0150	0.00754
(E) Continuous annealing	0.00210	0.00105
(F) Wet air pollution control devices:		
(1) fume scrubbers .....	<sup>2</sup> 2.27	<sup>2</sup> 1.14

<sup>1</sup> Pounds per ton of product for all operations except fume scrubbers.

<sup>2</sup> The values are expressed in pounds per day for this operation.

(2) *Oil & Grease*. (i) *Carbon and Alloy Steel*. The following performance standards apply to discharges in the carbon and alloy steels segment for each operation as applicable. Increased mass discharges may be provided by the permit authority on a site-specific basis to account for unregulated process

wastewaters and non-process wastewaters (e.g., oily wastewater from hot forming mill basements and roll shops, tramp oils from mill oil collection systems, utility wastewaters, groundwater remediation wastewaters), but only to the extent such flows are co-treated with process wastewaters

regulated by this subpart and generate an increased effluent volume. Such increased mass discharges shall be calculated as a percentage increase of the mass discharge otherwise applicable on the basis of the increased effluent volume.

#### PERFORMANCE STANDARDS (NSPS)

	Maximum daily <sup>1</sup>	Maximum monthly avg. <sup>1</sup>
(A) Acid pickling—hydrochloric:		
(1) bar, billet, rod, coil .....	0.0307	0.0274
(2) pipe, tube .....	0.638	0.0571
(3) plate .....	0.00219	0.00196
(4) strip, sheet .....	0.00313	0.00280
(B) Acid pickling—sulfuric:		
(1) bar, billet, rod, coil .....	0.0175	0.0157
(2) pipe, tube .....	0.0313	0.0280
(3) plate .....	0.00219	0.00196
(4) strip, sheet .....	0.0144	0.0129
(C) Acid regeneration:		
(1) fume scrubbers .....	<sup>2</sup> 9.01	<sup>2</sup> 8.07
(D) Alkaline cleaning:		
(1) pipe, tube .....	0.00125	0.00112
(2) strip, sheet .....	0.0219	0.0196
(E) Cold forming:		
(1) direct application-single stand .....	0.000188	0.000168
(2) direct application-multiple stands .....	0.0172	0.0154
(3) recirculation-single stand .....	0.0000626	0.0000560
(4) recirculation-multiple stands .....	0.00156	0.00140
(5) combination-multiple stand .....	0.0895	0.00801
(F) Continuous annealing lines .....	0.00125	0.00112
(G) Electroplating:		

## PERFORMANCE STANDARDS (NSPS)—Continued

	Maximum daily <sup>1</sup>	Maximum monthly avg. <sup>1</sup>
(1) strip, sheet: tin, chromium .....	0.00219	0.0196
(2) strip, sheet: zinc, other metals .....	0.0688	0.0616
(3) plate .....	0.0344	0.0308
(H) Hot coating:		
(1) galvanizing, terne and other metals .....	0.0344	0.0308
(I) Wet air pollution control devices:		
(1) fume scrubbers .....	<sup>2</sup> 1.35	<sup>2</sup> 1.21

<sup>1</sup> Pounds per ton of product for all operations except fume scrubbers.

<sup>2</sup> The values are expressed in pounds per day for this operation.

(ii) *Stainless Steel*. The following performance standards apply to discharges in the stainless steels segment for each operation as applicable. Increased mass discharges may be provided by the permit authority on a site-specific basis to account for unregulated process wastewaters and

non-process wastewaters (e.g., oily wastewater from hot forming mill basements and roll shops, tramp oils from mill oil collection systems, utility wastewaters, groundwater remediation wastewaters), but only to the extent such flows are co-treated with process wastewaters regulated by this subpart

and generate an increased effluent volume. Such increased mass discharges shall be calculated as a percentage increase of the mass discharge otherwise applicable on the basis of the increased effluent volume.

## PERFORMANCE STANDARDS (NSPS)

	Maximum daily <sup>1</sup>	Maximum monthly avg. <sup>1</sup>
(A) Acid pickling and other descaling:		
(1) bar, billet .....	0.0172	0.0136
(2) pipe, tube .....	0.0576	0.0456
(3) plate .....	0.00262	0.00207
(4) strip, sheet .....	0.0523	0.0414
(B) Acid regeneration:		
(1) fume scrubbers .....	<sup>2</sup> 10.8	<sup>2</sup> 8.52
(C) Alkaline cleaning:		
(1) pipe, tube .....	0.00149	0.00118
(2) strip, sheet .....	0.187	0.148
(D) Cold forming:		
(1) direct application-single stand .....	0.00262	0.00207
(2) direct application-multiple stands .....	0.0206	0.0163
(3) recirculation-single stand .....	0.000224	0.000177
(4) recirculation-multiple stands .....	0.00120	0.000947
(5) combination-multiple stand .....	0.0107	0.00846
(E) Continuous annealing .....	0.00149	0.00118
(F) Wet air pollution control devices:		
(1) fume scrubbers .....	<sup>2</sup> 1.61	<sup>2</sup> 1.28

<sup>1</sup> Pounds per ton of product for all operations except fume scrubbers.

<sup>2</sup> The values are expressed in pounds per day for this operation.

(3) *Ammonia as (N)*. (i) *Stainless Steel*. The following performance standards apply to discharges in the stainless steels segment for each operation as applicable. Increased mass discharges may be provided by the permit authority on a site-specific basis to account for unregulated process

wastewaters and non-process wastewaters (e.g., oily wastewater from hot forming mill basements and roll shops, tramp oils from mill oil collection systems, utility wastewaters, groundwater remediation wastewaters), but only to the extent such flows are co-treated with process wastewaters

regulated by this subpart and generate an increased effluent volume. Such increased mass discharges shall be calculated as a percentage increase of the mass discharge otherwise applicable on the basis of the increased effluent volume.

## PERFORMANCE STANDARDS (NSPS)

	Maximum daily <sup>1</sup>	Maximum monthly avg. <sup>1</sup>
(A) Acid pickling and other descaling:		
(1) bar, billet .....	0.0437	0.0287
(2) pipe, tube .....	0.146	0.0960
(3) plate .....	0.00665	0.00436
(4) strip, sheet .....	0.133	0.0873
(B) Wet air pollution control devices:		

## PERFORMANCE STANDARDS (NSPS)—Continued

	Maximum daily <sup>1</sup>	Maximum monthly avg. <sup>1</sup>
(1) fume scrubbers .....	<sup>2</sup> 4.10	<sup>2</sup> 2.69

<sup>1</sup> Pounds per ton of product for all operations except fume scrubbers.

<sup>2</sup> The values are expressed in pounds per day for this operation.

(4) *Chromium (VI)*. (i) *Carbon and Alloy Steel*. The following performance standards apply to discharges in the carbon and alloy steels segment for each operation as applicable. Increased mass discharges may be provided by the permit authority on a site-specific basis to account for unregulated process wastewaters and non-process

wastewaters (e.g., oily wastewater from hot forming mill basements and roll shops, tramp oils from mill oil collection systems, utility wastewaters, groundwater remediation wastewaters), but only to the extent such flows are co-treated with process wastewaters regulated by this subpart and generate an increased effluent volume. Such

increased mass discharges shall be calculated as a percentage increase of the mass discharge otherwise applicable on the basis of the increased effluent volume. The performance standards for chromium (VI) shall be applicable only when chromium (VI) is present in untreated wastewaters as a result of process or other operations.

## PERFORMANCE STANDARDS (NSPS)

	Maximum daily <sup>1</sup>	Maximum monthly avg. <sup>1</sup>
(A) Acid pickling—hydrochloric:		
(1) bar, billet, rod, coil .....	0.0000508	0.0000463
(2) pipe, tube .....	0.000106	0.0000963
(3) plate .....	0.00000363	0.00000330
(4) strip, sheet .....	0.00000518	0.00000472
(B) Acid pickling—sulfuric:		
(1) bar, billet, rod, coil .....	0.0000290	0.0000264
(2) pipe, tube .....	0.0000518	0.0000472
(3) plate .....	0.00000363	0.00000330
(4) strip, sheet .....	0.0000238	0.0000217
(C) Acid regeneration:		
(1) fume scrubbers .....	<sup>2</sup> 0.0149	<sup>2</sup> 0.0136
(D) Alkaline cleaning:		
(1) pipe, tube .....	0.00000207	0.00000189
(2) strip, sheet .....	0.0000363	0.0000330
(E) Cold forming:		
(1) direct application-single stand .....	0.000000311	0.000000283
(2) direct application-multiple stands .....	0.0000285	0.0000260
(3) recirculation-single stand .....	0.000000104	0.000000944
(4) recirculation-multiple stands .....	0.00000259	0.00000236
(5) combination-multiple stand .....	0.0000148	0.0000135
(F) Continuous annealing lines .....	0.00000207	0.00000189
(G) Electroplating:		
(1) plate .....	0.00000363	0.00000330
(2) strip, sheet: tin, chromium .....	0.000114	0.000104
(3) strip, sheet: zinc, other metals .....	0.0000570	0.0000519
(H) Hot coating:		
(1) galvanizing, terne and other metals .....	0.0000570	0.0000519
(I) Wet air pollution control devices:		
(1) fume scrubbers .....	<sup>2</sup> 0.00224	<sup>2</sup> 0.00204

<sup>1</sup> Pounds per ton of product for all operations except fume scrubbers.

<sup>2</sup> The values are expressed in pounds per day for this operation.

(ii) *Stainless Steel*. The following performance standards apply to discharges in the stainless steels segment for each operation as applicable. Increased mass discharges may be provided by the permit authority on a site-specific basis to account for unregulated process wastewaters and

non-process wastewaters (e.g., oily wastewater from hot forming mill basements and roll shops, tramp oils from mill oil collection systems, utility wastewaters, groundwater remediation wastewaters), but only to the extent such flows are co-treated with process wastewaters regulated by this subpart

and generate an increased effluent volume. Such increased mass discharges shall be calculated as a percentage increase of the mass discharge otherwise applicable on the basis of the increased effluent volume.

## PERFORMANCE STANDARDS (NSPS)

	Maximum daily <sup>1</sup>	Maximum monthly avg. <sup>1</sup>
(A) Acid pickling and other descaling:		
(1) bar, billet .....	0.000318	0.000196
(2) pipe, tube .....	0.00107	0.000655
(3) plate .....	0.0000484	0.0000298
(4) strip, sheet .....	0.000969	0.000595
(B) Acid regeneration:		
(1) fume scrubbers .....	<sup>2</sup> 0.199	<sup>2</sup> 0.122
(C) Alkaline cleaning:		
(1) pipe, tube .....	0.0000277	0.0000170
(2) strip, sheet .....	0.00346	0.00213
(D) Cold forming:		
(1) direct application-single stand .....	0.0000484	0.0000298
(2) direct application-multiple stands .....	0.000381	0.000234
(3) recirculation-single stand .....	0.00000415	0.00000255
(4) recirculation-multiple stands .....	0.0000221	0.0000136
(5) combination-multiple stand .....	0.000198	0.000122
(E) Continuous annealing .....	0.0000277	0.0000170
(F) Wet air pollution control devices:		
(1) fume scrubbers .....	<sup>2</sup> 0.0299	<sup>2</sup> 0.0184

<sup>1</sup> Pounds per ton of product for all operations except fume scrubbers.

<sup>2</sup> The values are expressed in pounds per day for this operation.

(5) *Chromium. (i) Carbon and Alloy Steel.* The following performance standards apply to discharges in the carbon and alloy steels segment for each operation as applicable. Increased mass discharges may be provided by the permit authority on a site-specific basis to account for unregulated process wastewaters and non-process

wastewaters (e.g., oily wastewater from hot forming mill basements and roll shops, tramp oils from mill oil collection systems, utility wastewaters, groundwater remediation wastewaters), but only to the extent such flows are co-treated with process wastewaters regulated by this subpart and generate an increased effluent volume. Such

increased mass discharges shall be calculated as a percentage increase of the mass discharge otherwise applicable on the basis of the increased effluent volume. The performance standards for chromium shall be applicable only when chromium is present in untreated wastewaters as a result of process or other operations.

## PERFORMANCE STANDARDS (NSPS)

	Maximum daily <sup>1</sup>	Maximum monthly avg. <sup>1</sup>
(A) Acid pickling—hydrochloric:		
(1) bar, billet, rod, coil .....	0.000227	0.000117
(2) pipe, tube .....	0.000472	0.000243
(3) plate .....	0.0000162	0.00000834
(4) strip, sheet .....	0.0000231	0.0000119
(B) Acid pickling—sulfuric:		
(1) bar, billet, rod, coil .....	0.000130	0.0000668
(2) pipe, tube .....	0.000231	0.000119
(3) plate .....	0.0000162	0.00000834
(4) strip, sheet .....	0.000106	0.0000548
(C) Acid regeneration:		
(1) fume scrubbers .....	<sup>2</sup> 0.0666	<sup>2</sup> 0.0343
(D) Alkaline cleaning:		
(1) pipe, tube .....	0.00000925	0.00000477
(2) strip, sheet .....	0.000162	0.0000834
(D) Cold forming:		
(1) direct application-single stand .....	0.00000139	0.000000715
(2) direct application-multiple stands .....	0.000127	0.0000656
(3) recirculation-single stand .....	0.000000463	0.000000238
(4) recirculation-multiple stands .....	0.0000116	0.00000596
(5) combination-multiple stand .....	0.0000662	0.0000341
(F) Continuous annealing lines .....	0.00000925	0.00000477
(G) Electroplating:		
(1) plate .....	0.0000162	0.00000834
(2) strip, sheet: tin, chromium .....	0.000509	0.000262
(3) strip, sheet: zinc, other metals .....	0.000255	0.000131
(H) Hot coating:		
(1) galvanizing, terne and other metals .....	0.000255	0.000131
(I) Wet air pollution control devices:		
(1) fume scrubbers .....	<sup>2</sup> 0.0010	<sup>2</sup> 0.00515

<sup>1</sup> Pounds per ton of product for all operations except fume scrubbers.

<sup>2</sup> The values are expressed in pounds per day for this operation.

(ii) *Stainless Steel*. The following performance standards apply to discharges in the stainless steels segment for each operation as applicable. Increased mass discharges may be provided by the permit authority on a site-specific basis to account for unregulated process wastewaters and

non-process wastewaters (e.g., oily wastewater from hot forming mill basements and roll shops, tramp oils from mill oil collection systems, utility wastewaters, groundwater remediation wastewaters), but only to the extent such flows are co-treated with process wastewaters regulated by this subpart

and generate an increased effluent volume. Such increased mass discharges shall be calculated as a percentage increase of the mass discharge otherwise applicable on the basis of the increased effluent volume.

#### PERFORMANCE STANDARDS (NSPS)

	Maximum daily <sup>1</sup>	Maximum monthly avg. <sup>1</sup>
(A) Acid pickling and other descaling:		
(1) bar, billet .....	0.000500	0.000280
(2) pipe, tube .....	0.00167	0.000939
(3) plate .....	0.0000760	0.0000427
(4) strip, sheet .....	0.00152	0.000854
(B) Acid regeneration:		
(1) fume scrubbers .....	<sup>2</sup> 0.313	<sup>2</sup> 0.176
(C) Alkaline cleaning:		
(1) pipe, tube .....	0.0000434	0.0000244
(2) strip, sheet .....	0.00543	0.00305
(D) Cold forming:		
(1) direct application-single stand .....	0.0000760	0.0000427
(2) direct application-multiple stands .....	0.000597	0.000335
(3) recirculation-single stand .....	0.00000652	0.00000366
(4) recirculation-multiple stands .....	0.0000348	0.0000195
(5) combination-multiple stand .....	0.000311	0.000174
(E) Continuous annealing .....	0.0000434	0.0000244
(F) Wet air pollution control devices:		
(1) fume scrubbers .....	<sup>2</sup> 0.0469	<sup>2</sup> 0.0263

<sup>1</sup> Pounds per ton of product for all operations except fume scrubbers.

<sup>2</sup> The values are expressed in pounds per day for this operation.

(6) *Fluoride*. (i) *Stainless Steel*. The following performance standards apply to discharges in the stainless steels segment for each operation as applicable. Increased mass discharges may be provided by the permit authority on a site-specific basis to account for unregulated process wastewaters and

non-process wastewaters (e.g., oily wastewater from hot forming mill basements and roll shops, tramp oils from mill oil collection systems, utility wastewaters, groundwater remediation wastewaters), but only to the extent such flows are co-treated with process wastewaters regulated by this subpart

and generate an increased effluent volume. Such increased mass discharges shall be calculated as a percentage increase of the mass discharge otherwise applicable on the basis of the increased effluent volume.

#### PERFORMANCE STANDARDS (NSPS)

	Maximum daily <sup>1</sup>	Maximum monthly avg. <sup>1</sup>
(A) Acid pickling and other descaling:		
(1) bar, billet .....	0.0446	0.0356
(2) pipe, tube .....	0.149	0.119
(3) plate .....	0.00679	0.00542
(4) strip, sheet .....	0.136	0.108
(B) Wet air pollution control devices:		
(1) fume scrubbers .....	<sup>2</sup> 4.19	<sup>2</sup> 3.34

<sup>1</sup> Pounds per ton of product for all operations except fume scrubbers.

<sup>2</sup> The values are expressed in pounds per day for this operation.

(7) *Lead*. (i) *Carbon and Alloy Steel*. The following performance standards apply to discharges in the carbon and alloy steels segment for each operation as applicable. Increased mass discharges may be provided by the permit authority on a site-specific basis to account for

unregulated process wastewaters and non-process wastewaters (e.g., oily wastewater from hot forming mill basements and roll shops, tramp oils from mill oil collection systems, utility wastewaters, groundwater remediation wastewaters), but only to the extent

such flows are co-treated with process wastewaters regulated by this subpart and generate an increased effluent volume. Such increased mass discharges shall be calculated as a percentage increase of the mass discharge otherwise

applicable on the basis of the increased effluent volume.

## PERFORMANCE STANDARDS (NSPS)

	Maximum daily <sup>1</sup>	Maximum monthly avg. <sup>1</sup>
(A) Acid pickling—hydrochloric:		
(1) bar, billet, rod, coil .....	0.000596	0.000311
(2) pipe, tube .....	0.00124	0.000647
(3) plate .....	0.0000426	0.0000222
(4) strip, sheet .....	0.0000609	0.0000317
(B) Acid pickling—sulfuric:		
(1) bar, billet, rod, coil .....	0.000341	0.000178
(2) pipe, tube .....	0.000609	0.000317
(3) plate .....	0.0000426	0.0000222
(4) strip, sheet .....	0.000280	0.000146
(C) Acid regeneration:		
(1) fume scrubbers .....	<sup>2</sup> 0.175	<sup>2</sup> 0.0913
(D) Alkaline cleaning:		
(1) pipe, tube .....	0.0000243	0.0000127
(2) strip, sheet .....	0.000426	0.000222
(E) Cold forming:		
(1) direct application-single stand .....	0.00000365	0.00000190
(2) direct application-multiple stands .....	0.000335	0.000174
(3) recirculation-single stand .....	0.00000122	0.000000634
(4) recirculation-multiple stands .....	0.0000304	0.0000159
(5) combination-multiple stands .....	0.000174	0.0000907
(F) Continuous annealing lines .....	0.0000243	0.0000127
(G) Electroplating:		
(1) strip, sheet: tin, chromium .....	0.0000426	0.0000222
(2) strip, sheet: zinc, other metals .....	0.00134	0.000698
(3) plate .....	0.000669	0.000349
(H) Hot coating:		
(1) galvanizing, terne and other metals .....	0.000669	0.000349
(I) Wet air pollution control devices:		
(1) fume scrubbers .....	<sup>2</sup> 0.0263	<sup>2</sup> 0.0137

<sup>1</sup> Pounds per ton of product for all operations except fume scrubbers.

<sup>2</sup> The values are expressed in pounds per day for this operation.

(8) *Nickel*. (i) *Stainless Steel*. The following performance standards apply to discharges in the stainless steels segment for each operation as applicable. Increased mass discharges may be provided by the permit authority on a site-specific basis to account for unregulated process wastewaters and

non-process wastewaters (e.g., oily wastewater from hot forming mill basements and roll shops, tramp oils from mill oil collection systems, utility wastewaters, groundwater remediation wastewaters), but only to the extent such flows are co-treated with process wastewaters regulated by this subpart

and generate an increased effluent volume. Such increased mass discharges shall be calculated as a percentage increase of the mass discharge otherwise applicable on the basis of the increased effluent volume.

## PERFORMANCE STANDARDS (NSPS)

	Maximum daily <sup>1</sup>	Maximum monthly avg. <sup>1</sup>
(A) Acid pickling and other descaling:		
(1) bar, billet .....	0.000147	0.000104
(2) pipe, tube .....	0.000494	0.000347
(3) plate .....	0.0000224	0.0000158
(4) strip, sheet .....	0.000449	0.000315
(B) Acid regeneration:		
(1) fume scrubbers .....	<sup>2</sup> 0.0923	<sup>2</sup> 0.0649
(C) Alkaline cleaning:		
(1) pipe, tube .....	0.0000128	0.00000901
(2) strip, sheet .....	0.00160	0.00113
(D) Cold forming:		
(1) direct application-single stand .....	0.0000224	0.0000158
(2) direct application-multiple stands .....	0.000176	0.000124
(3) recirculation-single stand .....	0.00000192	0.00000135
(4) recirculation-multiple stands .....	0.0000103	0.00000721
(5) combination-multiple stand .....	0.0000917	0.0000644
(E) Continuous annealing .....	0.0000128	0.00000901
(F) Wet air pollution control devices:		



## PERFORMANCE STANDARDS (NSPS)—Continued

	Maximum daily <sup>1</sup>	Maximum monthly avg. <sup>1</sup>
(1) fume scrubbers .....	0.01382	0.009732

<sup>1</sup> Pounds per ton of product for all operations except fume scrubbers.

<sup>2</sup> The values are expressed in pounds per day for this operation.

(9) *Zinc. (i) Carbon and Alloy Steel.*  
The following performance standards apply to discharges in the carbon and alloy steels segment for each operation as applicable. Increased mass discharges may be provided by the permit authority on a site-specific basis to account for unregulated process wastewaters and

non-process wastewaters (e.g., wastewater from hot forming mill basements and roll shops, tramp oils from mill oil collection systems, utility wastewaters, groundwater remediation wastewaters), but only to the extent such flows are co-treated with process wastewaters regulated by this subpart

and generate an increased effluent volume. Such increased mass discharges shall be calculated as a percentage increase of the mass discharge otherwise applicable on the basis of the increased effluent volume.

## PERFORMANCE STANDARDS (NSPS)

	Maximum daily <sup>1</sup>	Maximum monthly avg. <sup>1</sup>
(i) Acid pickling—hydrochloric:		
(A) bar, billet, rod, coil .....	0.000637	0.000262
(B) pipe, tube .....	0.00133	0.000546
(C) plate .....	0.0000455	0.0000187
(D) strip, sheet .....	0.0000650	0.0000267
(ii) Acid pickling—sulfuric:		
(A) bar, billet, rod, coil .....	0.000364	0.000150
(B) pipe, tube .....	0.000650	0.000267
(C) plate .....	0.0000455	0.0000187
(D) strip, sheet .....	0.000299	0.000123
(iii) Acid regeneration:		
(A) fume scrubbers .....	<sup>2</sup> 0.1872	<sup>2</sup> 0.07702
(iv) Alkaline cleaning:		
(A) pipe, tube .....	0.0000260	0.0000107
(B) strip, sheet .....	0.000455	0.000187
(v) Cold forming:		
(A) direct application-single stand .....	0.00000390	0.00000160
(B) direct application-multiple stands .....	0.000357	0.000147
(C) recirculation-single stand .....	0.00000130	0.000000535
(D) recirculation-multiple stands .....	0.0000325	0.0000134
(E) combination-multiple stand .....	0.000186	0.0000765
(vi) Continuous annealing lines .....	0.0000260	0.0000107
(vii) Electroplating:		
(A) plate .....	0.0000455	0.0000187
(B) strip, sheet: tin, chromium .....	0.00143	0.000588
(C) strip, sheet: zinc, other metals .....	0.000715	0.000294
(viii) Hot coating:		
(A) galvanizing, terne and other metals .....	0.000715	0.000294
(ix) Wet air pollution control devices:		
(A) fume scrubbers .....	0.02812	0.01162

<sup>1</sup> Pounds per ton of product for all operations except fume scrubbers.

<sup>2</sup> The values are expressed in pounds per day for this operation.

**§ 420.66 Pretreatment Standards for Existing Sources (PSES).**

Except as provided in 40 CFR 403.7 and 403.13, any existing source subject

to this subpart which introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and achieve the following

pretreatment standards for existing sources.

- (a) Salt bath descaling, oxidizing.  
(1) Batch, sheet and plate.

## PRETREATMENT STANDARDS (PSES)

Pollutant	Maximum daily <sup>1</sup>	Maximum monthly avg. <sup>1</sup>
Chromium .....	0.00584	0.00234
Nickel .....	0.00526	0.001752

<sup>1</sup> Pounds per ton of product.

(2) Batch, rod and wire.

#### PERFORMANCE STANDARDS (PSES)

Pollutant	Maximum daily <sup>1</sup>	Maximum month-ly avg. <sup>1</sup>
Chromium .....	0.00350	0.001402
Nickel .....	0.00316	0.001052

<sup>1</sup> Pounds per ton of product.

(3) Batch, pipe and tube.

#### PERFORMANCE STANDARDS (PSES)

Pollutant	Maximum daily <sup>1</sup>	Maximum month-ly avg. <sup>1</sup>
Chromium .....	0.01418	0.00568
Nickel .....	0.01276	0.00426

<sup>1</sup> Pounds per ton of product.

(4) Continuous.

#### PERFORMANCE STANDARDS (PSES)

Pollutant	Maximum daily <sup>1</sup>	Maximum month-ly avg. <sup>1</sup>
Chromium .....	0.00276	0.001102
Nickel .....	0.00248	0.000826

<sup>1</sup> Pounds per ton of product.

(b) Salt bath descaling, reducing.

(1) Batch.

#### PERFORMANCE STANDARDS (PSES)

Pollutant	Maximum daily <sup>1</sup>	Maximum month-ly avg. <sup>1</sup>
Chromium .....	0.00272	0.00108
Nickel .....	0.00244	0.000814

<sup>1</sup> Pounds per ton of product.

(2) Continuous.

#### PERFORMANCE STANDARDS (PSES)

Pollutant	Maximum daily <sup>1</sup>	Maximum month-ly avg. <sup>1</sup>
Chromium .....	0.0152	0.00608
Nickel .....	0.01366	0.00456

<sup>1</sup> Pounds per ton of product.

(c) Sulfuric acid (spent acid solutions and rinse waters).

(1) Rod, wire, and coil.

#### PERFORMANCE STANDARDS (PSES)

Pollutant	Maximum daily <sup>1</sup>	Maximum month-ly avg. <sup>1</sup>
Lead .....	0.001052	0.000350
Zinc .....	0.001402	0.000468

<sup>1</sup> Pounds per ton of product.

(2) Bar, billet, and bloom.

#### PERFORMANCE STANDARDS (PSES)

Pollutant	Maximum daily <sup>1</sup>	Maximum month-ly avg. <sup>1</sup>
Lead .....	0.000338	0.0001126
Zinc .....	0.000450	0.0001502

<sup>1</sup> Pounds per ton of product.

(3) Strip, sheet, and plate.

#### PERFORMANCE STANDARDS (PSES)

Pollutant	Maximum daily <sup>1</sup>	Maximum month-ly avg. <sup>1</sup>
Lead .....	0.000676	0.000226
Zinc .....	0.000902	0.000300

<sup>1</sup> Pounds per ton of product.

(4) Pipe, tube, and other products.

#### PERFORMANCE STANDARDS (PSES)

Pollutant	Maximum daily <sup>1</sup>	Maximum month-ly avg. <sup>1</sup>
Lead .....	0.001878	0.000626
Zinc .....	0.00250	0.000834

<sup>1</sup> Pounds per ton of product.

(5) Fume scrubber.

#### PERFORMANCE STANDARDS (PSES) <sup>2</sup>

Pollutant	Maximum daily <sup>1</sup>	Maximum month-ly avg. <sup>1</sup>
Lead .....	0.0810	0.0271
Zinc .....	0.1080	0.0361

<sup>1</sup> Pounds per day.

<sup>2</sup> The above limitations shall be applicable for each fume scrubber associated with sulfuric acid pickling operations.

(d) Hydrochloric acid pickling (spent acid solutions and rinse waters).

(1) Rod, wire, and coil.

#### PERFORMANCE STANDARDS (PSES)

Pollutant	Maximum daily <sup>1</sup>	Maximum month-ly avg. <sup>1</sup>
Lead .....	0.00184	0.000614
Zinc .....	0.00246	0.000818

<sup>1</sup> Pounds per ton of product.

(2) Strip, sheet, and plate.

#### PERFORMANCE STANDARDS (PSES)

Pollutant	Maximum daily <sup>1</sup>	Maximum month-ly avg. <sup>1</sup>
Lead .....	0.001052	0.000350
Zinc .....	0.001402	0.000468

<sup>1</sup> Pounds per ton of product.

(3) Pipe, tube, and other products.

## PERFORMANCE STANDARDS (PSES)

Pollutant	Maximum daily <sup>1</sup>	Maximum monthly avg. <sup>1</sup>
Lead .....	0.00384	0.001276
Zinc .....	0.00510	0.001702

<sup>1</sup> Pounds per ton of product.

(4) Fume scrubber.

PERFORMANCE STANDARDS (PSES)<sup>2</sup>

Pollutant	Maximum daily <sup>1</sup>	Maximum monthly avg. <sup>1</sup>
Lead .....	0.0810	0.0271
Zinc .....	0.1080	0.0361

<sup>1</sup> Pounds per day.<sup>2</sup> The above limitations shall be applicable for each fume scrubber associated with hydrochloric acid pickling operations.

(5) Acid regeneration (absorber vent scrubber).

PERFORMANCE STANDARDS (PSES)<sup>2</sup>

Pollutant	Maximum daily <sup>1</sup>	Maximum monthly avg. <sup>1</sup>
Lead .....	0.539	0.1802
Zinc .....	0.719	0.240

<sup>1</sup> Pounds per day.<sup>2</sup> The above limitations shall be applicable to the absorber vent scrubber wastewater associated with hydrochloric acid regeneration plants.

(e) Combination acid pickling (spent acid solutions and rinse waters).

(1) Rod, wire, and coil.

## PERFORMANCE STANDARDS (PSES)

Pollutant	Maximum daily <sup>1</sup>	Maximum monthly avg. <sup>1</sup>
Chromium .....	0.00426	0.001704
Nickel .....	0.00384	0.001276

<sup>1</sup> Pounds per ton of product.

(2) Bar, billet, and bloom.

## PERFORMANCE STANDARDS (PSES)

Pollutant	Maximum daily <sup>1</sup>	Maximum monthly avg. <sup>1</sup>
Chromium .....	0.001920	0.000768
Nickel .....	0.001728	0.000576

<sup>1</sup> Pounds per ton of product.

(3) Strip, sheet, and plate-continuous.

## PERFORMANCE STANDARDS (PSES)

Pollutant	Maximum daily <sup>1</sup>	Maximum monthly avg. <sup>1</sup>
Chromium .....	0.01252	0.00500

## PERFORMANCE STANDARDS (PSES)—Continued

Pollutant	Maximum daily <sup>1</sup>	Maximum monthly avg. <sup>1</sup>
Nickel .....	0.01126	0.00376

<sup>1</sup> Pounds per ton of product.

(4) Strip, sheet, and plate-batch.

## PERFORMANCE STANDARDS (PSES)

Pollutant	Maximum daily <sup>1</sup>	Maximum monthly avg. <sup>1</sup>
Chromium .....	0.00384	0.001536
Nickel .....	0.00346	0.001152

<sup>1</sup> Pounds per ton of product.

(5) Pipe, tube, and other products.

## PERFORMANCE STANDARDS (PSES)

Pollutant	Maximum daily <sup>1</sup>	Maximum monthly avg. <sup>1</sup>
Chromium .....	0.00644	0.00258
Nickel .....	0.00578	0.001928

<sup>1</sup> Pounds per ton of product.

(6) Fume scrubber.

## PERFORMANCE STANDARDS (PSES)

Pollutant	Maximum daily <sup>1</sup>	Maximum monthly avg. <sup>1</sup>
Chromium .....	0.1802	0.0719
Nickel .....	0.1617	0.0539

<sup>1</sup> Pounds per day.

<sup>2</sup> The above limitations shall be applicable to each fume scrubber associated with a combination acid pickling operation.

(f) Cold rolling.

(1) Recirculation-single stand.

## PERFORMANCE STANDARDS (PSES)

Pollutant	Maximum daily <sup>1</sup>	Maximum monthly avg. <sup>1</sup>
Chromium <sup>2</sup> .....	0.0000418	0.0000168
Lead .....	0.0000188	0.0000062
Nickel <sup>2</sup> .....	0.0000376	0.0000126
Zinc .....	0.0000126	0.0000042

<sup>1</sup> Pounds per ton of product.

<sup>2</sup> The limitations for chromium and nickel shall be applicable in lieu of those for lead and zinc when cold rolling wastewaters are treated with descaling or combination acid pickling wastewaters.

(2) Recirculation-multiple stands.

## PERFORMANCE STANDARDS (PSES)

Pollutant	Maximum daily <sup>1</sup>	Maximum monthly avg. <sup>1</sup>
Chromium <sup>2</sup> .....	0.000208	0.0000836
Lead .....	0.0000938	0.0000312
Nickel <sup>2</sup> .....	0.0001878	0.0000626

## PERFORMANCE STANDARDS (PSES)—Continued

Pollutant	Maximum daily <sup>1</sup>	Maximum monthly avg. <sup>1</sup>
Zinc .....	0.0000626	0.0000208

<sup>1</sup> Pounds per ton of product.

<sup>2</sup> The limitations for chromium and nickel shall be applicable in lieu of those for lead and zinc when cold rolling wastewaters are treated with descaling or combination acid pickling wastewaters.

(3) Combination.

## PERFORMANCE STANDARDS (PSES)

Pollutant	Maximum daily <sup>1</sup>	Maximum monthly avg. <sup>1</sup>
Chromium <sup>2</sup> .....	0.00250	0.001002
Lead .....	0.001126	0.000376
Nickel <sup>2</sup> .....	0.00226	0.000752
Zinc .....	0.000752	0.000250

<sup>1</sup> Pounds per ton of product.

<sup>2</sup> The limitations for chromium and nickel shall be applicable in lieu of those for lead and zinc when cold rolling wastewaters are treated with descaling or combination acid pickling wastewaters.

(4) Direct application-single stand.

## PERFORMANCE STANDARDS (PSES)

Pollutant	Maximum daily <sup>1</sup>	Maximum monthly avg. <sup>1</sup>
Chromium <sup>2</sup> .....	0.000752	0.000300
Lead .....	0.000338	0.0001126
Nickel <sup>2</sup> .....	0.000676	0.000226
Zinc .....	0.000226	0.0000752

<sup>1</sup> Pounds per ton of product.

<sup>2</sup> The limitations for chromium and nickel shall be applicable in lieu of those for lead and zinc when cold rolling wastewaters are treated with descaling or combination acid pickling wastewaters.

(5) Direct application-multiple stands.

## PERFORMANCE STANDARDS (PSES)

Pollutant	Maximum daily <sup>1</sup>	Maximum monthly avg. <sup>1</sup>
Chromium <sup>2</sup> .....	0.00334	0.001336
Lead .....	0.001502	0.000500
Nickel <sup>2</sup> .....	0.0030	0.001002
Zinc .....	0.001002	0.000334

<sup>1</sup> Pounds per ton of product.

<sup>2</sup> The limitations for chromium and nickel shall be applicable in lieu of those for lead and zinc when cold rolling wastewaters are treated with descaling or combination acid pickling wastewaters.

(g) Electroplating.

## PRETREATMENT STANDARDS (PSES)

Pollutant	Maximum daily <sup>1</sup>	Maximum monthly avg. <sup>1</sup>
Chromium .....	2.77	1.71
Lead .....	0.69	0.43
Nickel .....	3.98	2.38
Zinc .....	2.61	1.48

<sup>1</sup> Milligrams per liter.

(h) Galvanizing, terne coating and other coatings.

(1) Strip, sheet, and miscellaneous products.

#### PERFORMANCE STANDARDS (PSES)

Pollutant	Maximum daily <sup>1</sup>	Maximum monthly avg. <sup>1</sup>
Chromium (hexavalent) <sup>2</sup>	0.000300	0.0001002
Lead	0.00226	0.000752
Zinc	0.00300	0.001000

<sup>1</sup> Pounds per ton of product.

<sup>2</sup> The limitations for hexavalent chromium shall be applicable only to galvanizing operations which discharge wastewaters from the chromate rinse step.

(2) Fume scrubbers.

#### PERFORMANCE STANDARDS (PSES)

Pollutant	Maximum daily <sup>1</sup>	Maximum monthly avg. <sup>1</sup>
Chromium (hexavalent) <sup>2</sup>	0.01078	0.003586
Lead	0.0810	0.0271
Zinc	0.1080	0.0361

<sup>1</sup> Pounds per day.

<sup>2</sup> The limitations for hexavalent chromium shall be applicable only to galvanizing operations which discharge wastewaters from the chromate rinse step.

#### § 420.67 Pretreatment Standards for New Sources (PSNS).

New sources subject to this subpart must achieve the following pretreatment standards for new sources (PSNS), as applicable.

(a) Any new source subject to the provisions of this section that commenced discharging after *[insert date 10 years prior to the date that is 60 days after the publication date of the final rule]* and before *[insert date that is 60 days after the publication date of the final rule]* must continue to achieve the standards specified in the 2000 version of §§ 420.86, 420.96, 420.106, 420.116, and 420.126 for ten years beginning on the date the source commenced

discharge or during the period of depreciation or amortization of the facility, whichever comes first, after which the source must achieve the standards specified in § 420.66.

(b) Except as provided in 40 CFR 403.7, the following standards apply with respect to each new source that commences construction after *[insert date that is 60 days after the publication date of the final rule]*:

(1) *Ammonia as (N)*. (i) *Stainless Steel*. The following pretreatment standards apply to discharges in the stainless steels segment for each operation as applicable. Increased mass discharges may be provided by the permit authority on a site-specific basis

to account for unregulated process wastewaters and non-process wastewaters (e.g., oily wastewater from hot forming mill basements and roll shops, tramp oils from mill oil collection systems, utility wastewaters, groundwater remediation wastewaters), but only to the extent such flows are co-treated with process wastewaters regulated by this subpart and generate an increased effluent volume. Such increased mass discharges shall be calculated as a percentage increase of the mass discharge otherwise applicable on the basis of the increased effluent volume.

#### PERFORMANCE STANDARDS (PSNS)

	Maximum daily <sup>1</sup>	Maximum monthly avg. <sup>1</sup>
(A) Acid pickling and other descaling:		
(1) bar, billet	0.0437	0.0287
(2) pipe, tube	0.146	0.0960
(3) plate	0.00665	0.00436
(4) strip, sheet	0.133	0.0873
(B) Wet air pollution control devices:		
(1) fume scrubbers	≥ 4.10	≥ 2.69

<sup>1</sup> Pounds per ton of product for all operations except fume scrubbers.

<sup>2</sup> The values are expressed in pounds per day for this operation.

(2) *Chromium (VI)*. (i) *Carbon and Alloy Steel*. The following pretreatment standards apply to discharges in the carbon and alloy steels segment for each operation as applicable. Increased mass discharges may be provided by the

permit authority on a site-specific basis to account for unregulated process wastewaters and non-process wastewaters (e.g., oily wastewater from hot forming mill basements and roll shops, tramp oils from mill oil

collection systems, utility wastewaters, groundwater remediation wastewaters), but only to the extent such flows are co-treated with process wastewaters regulated by this subpart and generate an increased effluent volume. Such

increased mass discharges shall be calculated as a percentage increase of the mass discharge otherwise applicable

on the basis of the increased effluent volume. The pretreatment standards for chromium (VI) shall be applicable only

when chromium (VI) is present in untreated wastewaters as a result of process or other operations.

#### PRETREATMENT STANDARDS (PSNS)

	Maximum daily <sup>1</sup>	Maximum monthly avg. <sup>1</sup>
(A) Acid pickling—hydrochloric:		
(1) bar, billet, rod, coil .....	0.0000508	0.0000463
(2) pipe, tube .....	0.000106	0.0000963
(3) plate .....	0.00000363	0.00000330
(4) strip, sheet .....	0.00000518	0.00000472
(B) Acid pickling—sulfuric:		
(1) bar, billet, rod, coil .....	0.0000290	0.0000264
(2) pipe, tube .....	0.0000518	0.0000472
(3) plate .....	0.00000363	0.00000330
(4) strip, sheet .....	0.0000238	0.0000217
(C) Acid regeneration:		
(1) fume scrubbers .....	<sup>2</sup> 0.0149	<sup>2</sup> 0.0136
(D) Alkaline cleaning:		
(1) pipe, tube .....	0.00000207	0.00000189
(2) strip, sheet .....	0.0000363	0.0000330
(E) Cold forming:		
(1) direct application-single stand .....	0.000000311	0.000000283
(2) direct application-multiple stands .....	0.0000285	0.0000260
(3) recirculation-single stand .....	0.000000104	0.0000000944
(4) recirculation-multiple stands .....	0.00000259	0.00000236
(5) combination-multiple stand .....	0.0000148	0.0000135
(F) Continuous annealing lines .....	0.00000207	0.00000189
(G) Electroplating:		
(1) plate .....	0.00000363	0.00000330
(2) strip, sheet: tin, chromium .....	0.000114	0.000104
(3) strip, sheet: zinc, other metals .....	0.0000570	0.0000519
(H) Hot coating:		
(1) galvanizing, terne and other metals .....	0.0000570	0.0000519
(I) Wet air pollution control devices:		
(1) fume scrubbers .....	<sup>2</sup> 0.00224	<sup>2</sup> 0.00204

<sup>1</sup> Pounds per ton of product for all operations except fume scrubbers.

<sup>2</sup> The values are expressed in pounds per day for this operation.

(ii) *Stainless Steel*. The following pretreatment standards apply to discharges in the stainless steels segment for each operation as applicable. Increased mass discharges may be provided by the permit authority on a site-specific basis to account for unregulated process wastewaters and

non-process wastewaters (e.g., oily wastewater from hot forming mill basements and roll shops, tramp oils from mill oil collection systems, utility wastewaters, groundwater remediation wastewaters), but only to the extent such flows are co-treated with process wastewaters regulated by this subpart

and generate an increased effluent volume. Such increased mass discharges shall be calculated as a percentage increase of the mass discharge otherwise applicable on the basis of the increased effluent volume.

#### PRETREATMENT STANDARDS (PSNS)

	Maximum daily <sup>1</sup>	Maximum monthly avg. <sup>1</sup>
(A) Acid pickling and other descaling:		
(1) bar, billet .....	0.000318	0.000196
(2) pipe, tube .....	0.00107	0.000655
(3) plate .....	0.0000484	0.0000298
(4) strip, sheet .....	0.000969	0.000595
(B) Acid regeneration:		
(1) fume scrubbers .....	<sup>2</sup> 0.199	<sup>2</sup> 0.122
(C) Alkaline cleaning:		
(1) pipe, tube .....	0.0000277	0.0000170
(2) strip, sheet .....	0.00346	0.00213
(D) Cold forming:		
(1) direct application-single stand .....	0.0000484	0.0000298
(2) direct application-multiple stands .....	0.000381	0.000234
(3) recirculation-single stand .....	0.00000415	0.00000255
(4) recirculation-multiple stands .....	0.0000221	0.0000136
(5) combination-multiple stand .....	0.000198	0.000122
(E) Continuous annealing .....	0.0000277	0.0000170



## PRETREATMENT STANDARDS (PSNS)—Continued

	Maximum daily <sup>1</sup>	Maximum monthly avg. <sup>1</sup>
(F) Wet air pollution control devices: (1) fume scrubbers .....	<sup>2</sup> 0.0299	<sup>2</sup> 0.0184

<sup>1</sup> Pounds per ton of product for all operations except fume scrubbers.<sup>2</sup> The values are expressed in pounds per day for this operation.

(3) *Chromium*. (i) *Carbon and Alloy Steel*. The following pretreatment standards apply to discharges in the carbon and alloy steels segment for each operation as applicable. Increased mass discharges may be provided by the permit authority on a site-specific basis to account for unregulated process wastewaters and non-process

wastewaters (e.g., oily wastewater from hot forming mill basements and roll shops, tramp oils from mill oil collection systems, utility wastewaters, groundwater remediation wastewaters), but only to the extent such flows are co-treated with process wastewaters regulated by this subpart and generate an increased effluent volume. Such

increased mass discharges shall be calculated as a percentage increase of the mass discharge otherwise applicable on the basis of the increased effluent volume. The pretreatment standards for chromium shall be applicable only when chromium is present in untreated wastewaters as a result of process or other operations.

## PRETREATMENT STANDARDS (PSNS)

	Maximum daily <sup>1</sup>	Maximum monthly avg. <sup>1</sup>
(A) Acid pickling—hydrochloric: (1) bar, billet, rod, coil .....	0.000227	0.000117
(2) pipe, tube .....	0.000472	0.000243
(3) plate .....	0.0000162	0.00000834
(4) strip, sheet .....	0.0000231	0.0000119
(B) Acid pickling—sulfuric: (1) bar, billet, rod, coil .....	0.000130	0.0000668
(2) pipe, tube .....	0.000231	0.000119
(3) plate .....	0.0000162	0.00000834
(4) strip, sheet .....	0.000106	0.0000548
(C) Acid regeneration: (1) fume scrubbers .....	<sup>2</sup> 0.0666	<sup>2</sup> 0.0343
(D) Alkaline cleaning: (1) pipe, tube .....	0.00000925	0.00000477
(2) strip, sheet .....	0.000162	0.0000834
(E) Cold forming: (1) direct application-single stand .....	0.00000139	0.000000715
(2) direct application-multiple stands .....	0.000127	0.0000656
(3) recirculation-single stand .....	0.000000463	0.000000238
(4) recirculation-multiple stands .....	0.0000116	0.00000596
(5) combination-multiple stand .....	0.0000662	0.0000341
(F) Continuous annealing lines .....	0.00000925	0.00000477
(G) Electroplating: (1) plate .....	0.0000162	0.00000834
(2) strip, sheet: tin, chromium .....	0.000509	0.000262
(3) strip, sheet: zinc, other metals .....	0.000255	0.000131
(H) Hot coating: (1) galvanizing, terne and other metals .....	0.000255	0.000131
(I) Wet air pollution control devices: (1) fume scrubbers .....	<sup>2</sup> 0.00999	<sup>2</sup> 0.00515

<sup>1</sup> Pounds per ton of product for all operations except fume scrubbers.<sup>2</sup> The values are expressed in pounds per day for this operation.

(ii) *Stainless Steel*. The following pretreatment standards apply to discharges in the stainless steels segment for each operation as applicable. Increased mass discharges may be provided by the permit authority on a site-specific basis to account for unregulated process wastewaters and

non-process wastewaters (e.g., oily wastewater from hot forming mill basements and roll shops, tramp oils from mill oil collection systems, utility wastewaters, groundwater remediation wastewaters), but only to the extent such flows are co-treated with process wastewaters regulated by this subpart

and generate an increased effluent volume. Such increased mass discharges shall be calculated as a percentage increase of the mass discharge otherwise applicable on the basis of the increased effluent volume.

## PRETREATMENT STANDARDS (PSNS)

	Maximum daily <sup>1</sup>	Maximum monthly avg. <sup>1</sup>
(A) Acid pickling and other descaling:		
(1) bar, billet .....	0.000500	0.000280
(2) pipe, tube .....	0.00167	0.000939
(3) plate .....	0.0000760	0.0000427
(4) strip, sheet .....	0.00152	0.000854
(B) Acid regeneration:		
(1) fume scrubbers .....	<sup>2</sup> 0.313	<sup>2</sup> 0.176
(C) Alkaline cleaning:		
(1) pipe, tube .....	0.0000434	0.0000244
(2) strip, sheet .....	0.00543	0.00305
(D) Cold forming:		
(1) direct application-single stand .....	0.0000760	0.0000427
(2) direct application-multiple stands .....	0.000597	0.000335
(3) recirculation-single stand .....	0.0000652	0.0000366
(4) recirculation-multiple stands .....	0.0000348	0.0000195
(5) combination-multiple stand .....	0.000311	0.000174
(E) Continuous annealing .....	0.0000434	0.0000244
(F) Wet air pollution control devices:		
(1) fume scrubbers .....	<sup>2</sup> 0.0469	<sup>2</sup> 0.0263

<sup>1</sup> Pounds per ton of product for all operations except fume scrubbers.

<sup>2</sup> The values are expressed in pounds per day for this operation.

(4) *Fluoride*. (i) *Stainless Steel*. The following pretreatment standards apply to discharges in the stainless steels segment for each operation as applicable. Increased mass discharges may be provided by the permit authority on a site-specific basis to account for unregulated process wastewaters and

non-process wastewaters (e.g., oily wastewater from hot forming mill basements and roll shops, tramp oils from mill oil collection systems, utility wastewaters, groundwater remediation wastewaters), but only to the extent such flows are co-treated with process wastewaters regulated by this subpart

and generate an increased effluent volume. Such increased mass discharges shall be calculated as a percentage increase of the mass discharge otherwise applicable on the basis of the increased effluent volume.

## PRETREATMENT STANDARDS (PSNS)

	Maximum daily <sup>1</sup>	Maximum monthly avg. <sup>1</sup>
(A) Acid pickling and other descaling:		
(1) bar, billet .....	0.0446	0.0356
(2) pipe, tube .....	0.149	0.119
(3) plate .....	0.00679	0.00542
(4) strip, sheet .....	0.136	0.108
(B) Wet air pollution control devices		
(1) fume scrubbers .....	<sup>2</sup> 4.19	<sup>2</sup> 3.34

<sup>1</sup> Pounds per ton of product for all operations except fume scrubbers.

<sup>2</sup> The values are expressed in pounds per day for this operation.

(5) *Lead*. (i) *Carbon and Alloy Steel*. The following pretreatment standards apply to discharges in the carbon and alloy steels segment for each operation as applicable. Increased mass discharges may be provided by the permit authority on a site-specific basis to account for unregulated process wastewaters and

non-process wastewaters (e.g., oily wastewater from hot forming mill basements and roll shops, tramp oils from mill oil collection systems, utility wastewaters, groundwater remediation wastewaters), but only to the extent such flows are co-treated with process wastewaters regulated by this subpart

and generate an increased effluent volume. Such increased mass discharges shall be calculated as a percentage increase of the mass discharge otherwise applicable on the basis of the increased effluent volume.

## PRETREATMENT STANDARDS (PSNS)

	Maximum daily <sup>1</sup>	Maximum monthly avg. <sup>1</sup>
(A) Acid pickling—hydrochloric:		
(1) bar, billet, rod, coil .....	0.000596	0.000311
(2) pipe, tube .....	0.00124	0.000647
(3) plate .....	0.0000426	0.0000222
(4) strip, sheet .....	0.0000609	0.0000317
(B) Acid pickling—sulfuric:		

## PRETREATMENT STANDARDS (PSNS)—Continued

	Maximum daily <sup>1</sup>	Maximum monthly avg. <sup>1</sup>
(1) bar, billet, rod, coil .....	0.000341	0.000178
(2) pipe, tube .....	0.000609	0.000317
(3) plate .....	0.0000426	0.0000222
(4) strip, sheet .....	0.000280	0.000146
(C) Acid regeneration:		
(1) fume scrubbers .....	<sup>2</sup> 0.175	<sup>2</sup> 0.0913
(D) Alkaline cleaning:		
(1) pipe, tube .....	0.0000243	0.0000127
(2) strip, sheet .....	0.000426	0.000222
(E) Cold forming:		
(1) direct application-single stand .....	0.00000365	0.00000190
(2) direct application-multiple stands .....	0.000335	0.000174
(3) recirculation-single stand .....	0.00000122	0.000000634
(4) recirculation-multiple stands .....	0.0000304	0.0000159
(5) combination-multiple stands .....	0.000174	0.0000907
(F) Continuous annealing lines .....	0.0000243	0.0000127
(G) Electroplating:		
(1) strip, sheet: tin, chromium .....	0.0000426	0.0000222
(2) strip, sheet: zinc, other metals .....	0.00134	0.000698
(3) plate .....	0.000669	0.000349
(H) Hot coating:		
(1) galvanizing, terne and other metals .....	0.000669	0.000349
(I) Wet air pollution control devices:		
(1) fume scrubbers .....	<sup>2</sup> 0.0263	<sup>2</sup> 0.0137

<sup>1</sup> Pounds per ton of product for all operations except fume scrubbers.

<sup>2</sup> The values are expressed in pounds per day for this operation.

(6) *Nickel*. (i) *Stainless Steel*. The following pretreatment standards apply to discharges in the stainless steels segment for each operation as applicable. Increased mass discharges may be provided by the permit authority on a site-specific basis to account for unregulated process wastewaters and

non-process wastewaters (e.g., oily wastewater from hot forming mill basements and roll shops, tramp oils from mill oil collection systems, utility wastewaters, groundwater remediation wastewaters), but only to the extent such flows are co-treated with process wastewaters regulated by this subpart

and generate an increased effluent volume. Such increased mass discharges shall be calculated as a percentage increase of the mass discharge otherwise applicable on the basis of the increased effluent volume.

## PRETREATMENT STANDARDS (PSNS)

	Maximum daily <sup>1</sup>	Maximum monthly avg. <sup>1</sup>
(A) Acid pickling and other descaling:		
(1) bar, billet .....	0.000147	0.000104
(2) pipe, tube .....	0.000494	0.000347
(3) plate .....	0.0000224	0.0000158
(4) strip, sheet .....	0.000449	0.000315
(B) Acid regeneration:		
(1) fume scrubbers .....	<sup>2</sup> 0.0923	<sup>2</sup> 0.0649
(C) Alkaline cleaning:		
(1) pipe, tube .....	0.0000128	0.00000901
(2) strip, sheet .....	0.00160	0.00113
(D) Cold forming:		
(1) direct application-single stand .....	0.0000224	0.0000158
(2) direct application-multiple stands .....	0.000176	0.000124
(3) recirculation-single stand .....	0.00000192	0.00000135
(4) recirculation-multiple stands .....	0.0000103	0.00000721
(5) combination-multiple stand .....	0.0000917	0.0000644
(E) Continuous annealing .....	0.0000128	0.00000901
(F) Wet air pollution control devices:		
(1) fume scrubbers .....	<sup>2</sup> 0.0138	<sup>2</sup> 0.00973

<sup>1</sup> Pounds per ton of product for all operations except fume scrubbers.

<sup>2</sup> The values are expressed in pounds per day for this operation.

(7) *Zinc*. (i) *Carbon and Alloy Steel*. The following pretreatment standards apply to discharges in the carbon and

alloy steels segment for each operation as applicable. Increased mass discharges may be provided by the permit authority

on a site-specific basis to account for unregulated process wastewaters and non-process wastewaters (e.g., oily

wastewater from hot forming mill basements and roll shops, tramp oils from mill oil collection systems, utility wastewaters, groundwater remediation wastewaters), but only to the extent

such flows are co-treated with process wastewaters regulated by this subpart and generate an increased effluent volume. Such increased mass discharges shall be calculated as a percentage

increase of the mass discharge otherwise applicable on the basis of the increased effluent volume.

#### PRETREATMENT STANDARDS (PSNS)

	Maximum daily <sup>1</sup>	Maximum monthly avg. <sup>1</sup>
(i) Acid pickling—hydrochloric:		
(A) bar, billet, rod, coil .....	0.000637	0.000262
(B) pipe, tube .....	0.00133	0.000546
(C) plate .....	0.0000455	0.0000187
(D) strip, sheet .....	0.0000650	0.0000267
(ii) Acid pickling—sulfuric:		
(A) bar, billet, rod, coil .....	0.000364	0.000150
(B) pipe, tube .....	0.000650	0.000267
(C) plate .....	0.0000455	0.0000187
(D) strip, sheet .....	0.000299	0.000123
(iii) Acid regeneration:		
(A) fume scrubbers .....	≥0.187	≥0.0770
(iv) Alkaline cleaning:		
(A) pipe, tube .....	0.0000260	0.0000107
(B) strip, sheet .....	0.000455	0.000187
(v) Cold forming:		
(A) direct application-single stand .....	0.00000390	0.00000160
(B) direct application-multiple stands .....	0.000357	0.000147
(C) recirculation-single stand .....	0.00000130	0.000000535
(D) recirculation-multiple stands .....	0.0000325	0.0000134
(E) combination-multiple stand .....	0.000186	0.0000765
(vi) Continuous annealing lines .....	0.0000260	0.0000107
(vii) Electroplating:		
(A) plate .....	0.0000455	0.0000187
(B) strip, sheet: tin, chromium .....	0.00143	0.000588
(C) strip, sheet: zinc, other metals .....	0.000715	0.000294
(viii) Hot coating:		
(A) galvanizing, terne and other metals .....	0.000715	0.000294
(ix) Wet air pollution control devices:		
(A) fume scrubbers .....	≥0.0281	≥0.0116

<sup>1</sup> Pounds per ton of product for all operations except fume scrubbers.

<sup>2</sup> The values are expressed in pounds per day for this operation.

#### Subpart G—Other Operations Subcategory

##### § 420.70 Applicability.

The provisions of this subpart are applicable to discharges and the introduction of pollutants into publicly owned treatment works resulting from production of direct-reduced iron and forging operations.

##### § 420.71 Subcategory definitions.

As used in this subpart:

(a) *Product* means:

(1) Direct-reduced iron, including any undersize product;

(2) Direct-reduced iron after forging operations, but prior to any further shaping or finishing operations; and

(3) Direct-reduced iron briquetted, including any undersized product. The average daily operating (production) rate must be determined as specified in § 420.3.

(b) *Briquetting operations* means a hot or cold process that agglomerates (presses together) iron-bearing materials into small lumps without melting or fusion. Used as a concentrated iron ore substitute for scrap in electric furnaces.

(c) *Direct-reduced iron* means iron produced by reduction of iron ore (pellets or briquettes) using gaseous (carbon monoxide-carbon dioxide, hydrogen) or solid reactants.

(d) *ging* means the hot-working of heated steel shapes (e.g., ingots, blooms, billets, slabs) using hydraulic presses.

##### § 420.72 Effluent limitations attainable by the application of the best practicable control technology currently available (BPT).

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart must achieve, for each applicable segment, the following effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available (BPT):

(a) *Direct-reduced iron*. This table is Effluent Limitations (BPT) for direct-reduced iron:

#### EFFLUENT LIMITATIONS (BPT)

Pollutant	Maximum daily <sup>1</sup>	Maximum monthly avg. <sup>1</sup>
TSS .....	0.0200	0.00929

<sup>1</sup> Pounds per ton of product.

(b) *ging operations*. This table is Effluent Limitations (BPT) for forging operations:

## EFFLUENT LIMITATIONS (BPT)

Pollutant	Maximum daily <sup>1</sup>	Maximum monthly avg. <sup>1</sup>
Oil and grease .....	0.0149	0.00889
TSS .....	0.0235	0.0118

<sup>1</sup> Pounds per ton of product.

(c) *Briquetting*. There shall be no discharge of process wastewater pollutants.

**§ 420.73 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best control technology for conventional pollutants (BCT).**

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart must achieve the following effluent limitations representing the degree of effluent reduction attainable by the application of the best control technology for conventional pollutants

(BCT): The limitations shall be the same as those specified for conventional pollutants (which are defined in 40 CFR 401.16) in § 420.72 of this subpart for the best practicable control technology currently available (BPT).

**§ 420.74 Effluent limitations attainable by the application of the best available control technology economically achievable (BAT).**

(a) *Direct-reduced iron; forging operations*. (Reserved)

(b) *Briquetting*. Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart must achieve the following effluent limitations representing the

degree of effluent reduction attainable by the application of the best available control technology economically achievable (BAT); There shall be no discharge of process wastewater pollutants.

**§ 420.75 New Source Performance Standards (NSPS).**

New sources subject to this subpart must achieve the following new source performance standards (NSPS), as applicable.

(a) *Direct-reduced iron*. This table is Performance Standards (NSPS) for direct-reduced iron:

## PERFORMANCE STANCARDS (NSPS)

Pollutant	Maximum daily <sup>1</sup>	Maximum monthly avg. <sup>1</sup>
TSS .....	0.0200	0.00929

<sup>1</sup> Pounds per ton of product.

(b) *ging operations*. This table is for Performance Standards (NSPS):

## PERFORMANCE STANCARDS (NSPS)

Pollutant	Maximum daily <sup>1</sup>	Maximum monthly avg. <sup>1</sup>
Oil and grease .....	0.0149	0.00889
TSS .....	0.0235	0.0118

<sup>1</sup> Pounds per ton of product.

(c) *Briquetting*. There shall be no discharge of process wastewater pollutants.

**§ 420.76 Pretreatment Standards for Existing Sources (PSES).**

Except as provided in 40 CFR 403.7, any existing source subject to this subpart that introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and must achieve the following pretreatment standards for existing sources (PSES):

(a) *Direct-reduced iron; forging operations*. (Reserved)

(b) *Briquetting*. There shall be no discharge of process wastewater pollutants to POTWs.

**§ 420.77 Pretreatment Standards for New Sources (PSNS).**

Except as provided in 40 CFR 403.7, any new source subject to this subpart that introduces pollutants into a publicly owned treatment works must comply with 40 CFR part 403 and must

achieve the following pretreatment standards for new sources (PSNS):

(a) *Direct-reduced iron; forging operations*. (Reserved)

(b) *Briquetting*. There shall be no discharge of process wastewater pollutants to POTWs.

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